

ABSTRACT OF THE DISCLOSURE

An adhesive film or paste reinforced with shape memory alloy (SMA) particles. In one preferred form the film or paste is reinforced with NITINOL® alloy particles. The NITINOL® alloy particles may comprise cylindrical, oval or spherical shaped particles and are intermixed in a base material of the film or paste. The SMA particles provide superelastic, reversible strain properties that significantly improve the damage resistance, damage tolerance, elevated temperature performance, and overall toughness and durability of the adhesive film or paste after it is applied to an external component, without negatively affecting the hot-wet compression strength of the film or paste.